

### JOINT SEALANT, FLASHING COMPOUND AND VAPOR SEAL

#### DESCRIPTION

CHIL-JOINT® CP-70 is a non-shrinking, non-drying, economical joint sealant for applications with all types of low temperature, dual temperature and some high temperature insulation systems.

#### USES

CHIL-JOINT® CP-70 sealant is used to vapor seal and act as an expansion joint in the joints of cellular glass and cellular plastic insulations. It will not attack polystyrene insulations and remains malleable and functional through a wide temperature range.

CHIL-JOINT® CP-70 sealant has good resistance to elevated temperatures, and it is recommended as a joint sealant material up to 300°F (149°C)\*. It is an excellent water and vapor sealant for insulation joints and bedding between pipes and rigid insulation. It is also suggested as a joint and lap sealant for all metal jacketing systems.

#### APPLICATION

CHIL-JOINT® CP-70 sealant is applied with pointed trowel, putty knife or power extrusion equipment. It is also available in caulking tubes and may be applied with hand or power caulking guns. It has a heavy body and can be applied in various thicknesses without sagging or running.

#### ADVANTAGES

- It has a low level of volatiles, which would cause shrinking when it is used to seal the joints of impermeable materials
- It will not shrink or pull away from surfaces, and even at elevated temperatures (although it may discolor and harden) it still forms a tight weather bond under most conditions
- It forms a tough protective surface where exposed to the air, which helps protect the underlying sealant
- CHIL-JOINT® CP-70 sealant requires no mixing or additives
- MAS Certified Green®
- California Dept. of Public Health Standard Method v1.2
- VOC Emissions and Content requirements to contribute to LEED v4 EQ Credit: Low Emitting Materials – Paints and Coatings
- VOC Content: < 85 g/l, less water and exempt solvents (cartridges: VOC < 4% by weight)
- Collaborative for High Performance Schools EQ 7.1

\*At temperatures above 200°F, the sealant may harden and lose flexibility while maintaining its seal.

\*\* CP-70 will form a skin where exposed resulting in a greenish gray surface color on aging. Remove excess sealant from the surface of jacketing where the color change will be objectionable

#### COLOR

Gray\*\*

#### AVERAGE WET WEIGHT (ASTM D1475)

13.5 lbs./U.S. gal. (1.62 kg/liter)

#### AVERAGE NON-VOLATILE (ASTM D2369)

90% by volume (95% by weight)

#### SERVICE TEMPERATURE RANGE

Temperature to which dry coating is subjected.  
-100°F to 300°F (-73°C to 149°C)

#### APPLICATION TEMPERATURE RANGE

40°F to 100°F (4°C to 38°C)

#### DRYING TIME

Non-Drying: Skins over in 24 hours

#### FLASH POINT

142°F

#### COVERAGE

In a Joint: 1" x 1/16" = 1 U.S. gal. for 308 linear ft. (2.5 cm x 0.16 cm = 24 m/liter)  
125 linear ft. per 10.5 oz. tube for 1/8" bead (38 m per 310 ml tube for a 3.2 mm bead)

#### COMBUSTIBILITY

Combustible. Flame spread and fuel contribution negligible when used as sealant in 1/8 in. (3.2 mm) wide joints of incombustible insulation.

#### CLEAN UP

Mineral spirits

#### WATER VAPOR PERMEANCE

ASTM F1249: 0.06 perms (0.04 metric perms) tested in 1/8" (3.2 mm) film at 100°F (38°C) and 90% RH

The water vapor transmission through 1 inch of impermeable insulation in 12 in. X 18 in. blocks with 1/8 in. (3.2 mm) wide joints of CP-70 is too small to measure.



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### H.B. Fuller Construction Products Inc.

Customer Service  
800-832-9002

1105 South Frontenac Street  
Aurora, IL 60504

Fax  
800-952-2368

## **JOINT SEALANT FOR CELLULAR GLASS OR CELLULAR PLASTIC INSULATIONS**

During application of insulation, apply a minimum 1/8" (0.31 cm) thickness of CHIL-JOINT® CP-70 sealant to the longitudinal and abutting joints, for the total width of the insulation section.

Sections of insulation shall be pressed firmly into place to ensure an unbroken seal. At termination of insulation, the CHIL-JOINT® CP-70 sealant shall be extended back under the insulation for a minimum of 4" (10.16 cm).

Note: Pressurized piping made from copper and aluminum alloys may be susceptible to under insulation corrosion when moisture is present and in direct contact with many materials. When used as a joint sealant, direct contact between pressurized pipes made from these metals and the sealant should be prevented.

## **JOINT SEALANT FOR METAL JACKETING SYSTEMS**

All joints of aluminum or stainless steel jacketing shall be weather sealed by applying a 1/8" (0.31 cm) bead of CHIL-JOINT® CP-70 sealant underneath the lap. Jacketing shall be firmly embedded and pulled up tight. All overflow of sealant shall be removed with solvents.

## **FLASHING COMPOUND AT UNINSULATED SURFACES**

Where weatherproofed insulation butts uninsulated surfaces, CHIL-JOINT® CP-70 sealant shall be applied over the adjoining weatherproof surface and flashed to the uninsulated surface a minimum of 2 inches (5.08 cm) in each direction. A glass fiber reinforcing mesh of CHIL-GLAS® #10 shall be embedded into the flashing compound and the minimum flashing thickness at all points shall be 1/16" (0.15 cm).

## **NOTES TO SPECIFYING ENGINEER**

1. **When using a solvent-based vapor barrier coating system such as ENCACEL® or CHIL-PERM® CP-30LO, the joint sealant to be used shall be CHIL-BYL® CP-76 sealant. CHIL-JOINT® CP-70 sealant shall not be used for this application if discoloration of coating would be objectionable.**
2. In areas where multiple layer cellular insulations are applied, it is suggested that the insulation manufacturer's recommendations be followed. All joints shall be buttered with CHIL-JOINT® CP-70 sealant to a minimum thickness of 1/16" (0.15 cm).

# **Application Guide and Suggested Procedures**

## **1. USE OF MATERIAL**

CHIL-JOINT® CP-70 sealant is a very viscous material. Although it may be used at very low temperatures, it is suggested that the CHIL-JOINT® CP-70 sealant be kept as warm as possible (preferably stored at 70°F; 21°C) just prior to application for optimum ease of application. **DO NOT THIN.** CHIL-JOINT® CP-70 sealant should be applied at temperatures 40°F (4°C) or greater.

## **2. CONDITION OF THE SURFACE TO BE COATED**

The surface to be coated should be free of all oil, grease, loose scale and foreign matter and shall be dry and free from frost.

## **3. APPLICATION**

CHIL-JOINT® CP-70 sealant is usually applied with a steel trowel. There is power extrusion equipment available for production applications. When using caulking tubes and laying down a bead in the joints of block insulation or pipe insulation, sufficient beading should be applied so that when the joints are squeezed together, a minimum 1/16" (0.15 cm) film is formed.

## **4. HINTS FOR SUCCESS**

When the joints of insulation are squeezed together, any excess CHIL-JOINT® CP-70 sealant should be removed or smoothed down flush with the insulation surface. Spillage or overflow of CHIL-JOINT® CP-70 sealant may be readily removed with almost any type of hydrocarbon solvent.

Although CHIL-JOINT® CP-70 sealant may be coated over with many types of coatings, user should verify by his own test that there would be no bleeding through the top coating by the CHIL-JOINT® CP-70 sealant.

Make certain this product is completely dry and the area free from product odor if food is involved.

## **CUSTOMER SERVICE: (800) 832-9002**

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